

LH

Series Long Life 105°C
长寿命产品 105°C

适用于彩电、空调、电子仪表等线路中。

★ Used in Color-TV, Air conditioning, Electron meter, self-ballasted lamp circuits etc.

★ Load Life 5000~6000Hrs at 105°C

主要技术性能 Specifications

项目 Item	特性 Performance Characteristics																									
使用温度范围 Operating temperature rang	-40 ~ 105°C	-25 ~ 105°C																								
额定电压范围 Rated voltage range	10 ~ 500V _{DC}	160 ~ 450V _{DC}																								
标准电容量范围 Nominal capacitance range	0.68 ~ 3300 μF	6.8 ~ 220 μF																								
标准电容量允许偏差 Capacitance tolerance	±20% (120Hz, +20°C)																									
漏电流 Leakage current	I ≤ 0.01CV (A) or 3μA																									
	2 分钟后测试取较大者 After 2 minutes applying the DC working voltage																									
损耗角正切值 (tan. δ) Dissipation factor max. (D.F.) at 20°C, 120Hz	<table border="1"> <tr> <td>Working Voltage V_{DC}</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>160</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>450</td> </tr> <tr> <td>DF (%)Max.</td> <td>20</td> <td>16</td> <td>14</td> <td>12</td> <td>10</td> <td>15</td> <td>15</td> <td>15</td> <td>20</td> <td>20</td> <td>20</td> </tr> </table>		Working Voltage V _{DC}	10	16	25	35	50	160	200	250	350	400	450	DF (%)Max.	20	16	14	12	10	15	15	15	20	20	20
	Working Voltage V _{DC}	10	16	25	35	50	160	200	250	350	400	450														
DF (%)Max.	20	16	14	12	10	15	15	15	20	20	20															
当容量大于1000 μF 时, 每增加1000 μF 的容量, DF 增加2%。 For Capacitance > 1000 μF, add 2% per another 1000 μF.																										
低温特性 Low Temperature Characteristics (Impedance ratio at 120Hz)	<table border="1"> <tr> <td>Working Voltage (V_{DC})</td> <td></td> <td></td> <td></td> <td></td> <td>50</td> <td>160</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>450</td> </tr> <tr> <td>Z-25°C/+20°C</td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td>3</td> <td>3</td> <td>3</td> <td>6</td> <td>6</td> <td>6</td> </tr> </table>		Working Voltage (V _{DC})					50	160	200	250	350	400	450	Z-25°C/+20°C					2	3	3	3	6	6	6
	Working Voltage (V _{DC})					50	160	200	250	350	400	450														
Z-25°C/+20°C					2	3	3	3	6	6	6															
For Capacitance > 1000 μF, add 0.5 per another 1000 μF for 25°C/20°C add 1 per another 1000 μF for 40°C/20°C																										
负荷寿命 Load life	+105°C下施加额定工作电压如下表时间后, 特性变化率如下: After applying rated voltage duration time at +105°C,																									
	<table border="1"> <tr> <td>φD</td> <td>< φ8</td> <td>φ8</td> <td>≥ φ10</td> </tr> <tr> <td>Life Hours</td> <td>5000</td> <td>8000</td> <td>10000</td> </tr> </table>		φD	< φ8	φ8	≥ φ10	Life Hours	5000	8000	10000																
	φD	< φ8	φ8	≥ φ10																						
	Life Hours	5000	8000	10000																						
<table border="1"> <tr> <td>Capacitance Change</td> <td>≤ ±20%初始测量值以内 The initial value</td> </tr> <tr> <td>D.F. (%)Change</td> <td>≤ 200%初始规定值 The initial specified value</td> </tr> <tr> <td>Leakage Current Change</td> <td>≤ 初始规定值 The initial specified value</td> </tr> </table>		Capacitance Change	≤ ±20%初始测量值以内 The initial value	D.F. (%)Change	≤ 200%初始规定值 The initial specified value	Leakage Current Change	≤ 初始规定值 The initial specified value																			
Capacitance Change	≤ ±20%初始测量值以内 The initial value																									
D.F. (%)Change	≤ 200%初始规定值 The initial specified value																									
Leakage Current Change	≤ 初始规定值 The initial specified value																									
放置寿命 Shelf life	+105°C下放置1000Hrs 后, 特性变化率如下: After 1000Hrs at +105°C,																									
	<table border="1"> <tr> <td>Capacitance Change</td> <td>≤ ±20%初始测量值以内 The initial value</td> </tr> <tr> <td>D.F. (%)Change</td> <td>≤ 200%初始规定值 The initial specified value</td> </tr> <tr> <td>Leakage Current Change</td> <td>≤ 初始规定值 The initial specified value</td> </tr> </table>		Capacitance Change	≤ ±20%初始测量值以内 The initial value	D.F. (%)Change	≤ 200%初始规定值 The initial specified value	Leakage Current Change	≤ 初始规定值 The initial specified value																		
	Capacitance Change	≤ ±20%初始测量值以内 The initial value																								
	D.F. (%)Change	≤ 200%初始规定值 The initial specified value																								
Leakage Current Change	≤ 初始规定值 The initial specified value																									

纹波与频率系数对照表

Multiplier of ripple current vs frequency

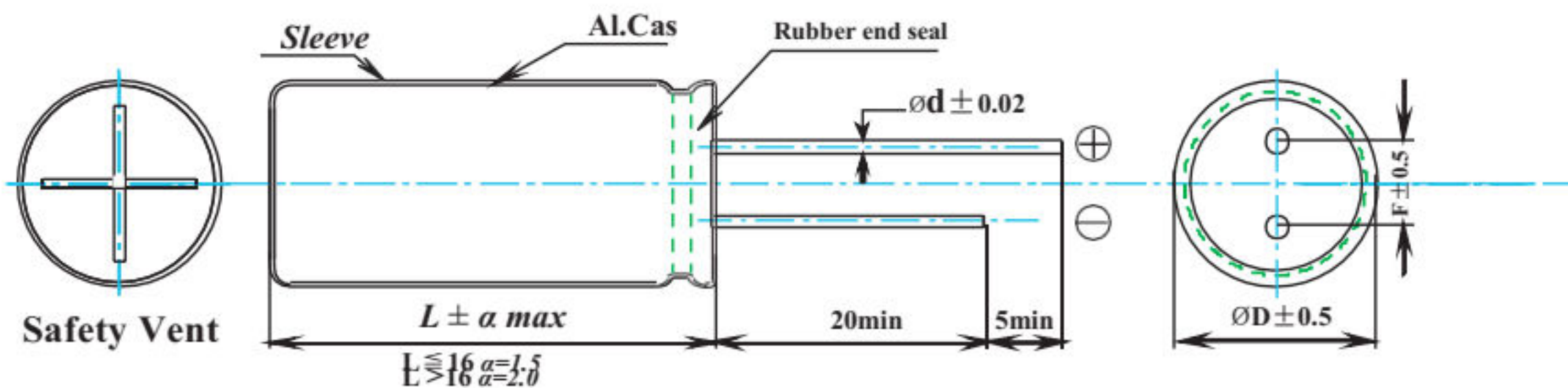
Frequency (Hz)	120	1K	10K	≥ 100K
Multiplier	0.50	0.80	0.85	1.00

纹波与温度系数对照表

Multiplier of ripple current vs temperature

Temperature (°C)	55	60	70	85	105
系数 Factor	2.23	2.17	2.00	1.75	1.00

规格尺寸图 Dimensions: mm



φD ± 0.5	5	6.3	8	10	13	16	18
F ± 0.5	2.0	2.5	3.5	5.0	5.0	7.5	7.5
φd ± 0.02	0.5	0.5	0.5	0.6	0.6	0.8	0.8

尺寸与纹波对照表 Ripple current vs size

WV (V) Cap (F)		10 (3)		16 (20)		25 (32)		35 (44)		35 (44)	
		Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.
6.8										5x11	120
10								5x11	65	5x11	130
22						5x11	100	5x11	120	5x11	210
										6.3x12	250
33			5x11	100	5x11	130	6.3x12	150	8x12	310	
47	5x11	90	5x11	150	6.3x12	200	6.3x12	230	8x12	450	
68	5x11	120	6.3x12	190	6.3x12	250	8x12	280	8x12	600	
100	5x11	190	6.3x12	230	6.3x12	280	8x12	360	8x12	750	
150	6.3x12	250	6.3x12	260	6.3x12	400	8x12	500	10x13	930	
220	6.3x12	310	8x12	400	8x12	530	10x13	650	10x16	1100	
330	8x12	420	8x12	500	10x13	650	10x13	810	10x16	1450	
470	8x12	500	8x16	600	10x13	800	10x20	990	13x25	1600	
680	10x13	750	10x16	900	10x20	1050	13x21	1150	13x26		
1000	10x17	920	10x20	1020	13x21	1350	13x26	1500	16x26		
1500	10x20	1100	13x21	1400	13x26	1600	16x26	1750			
2200	13x21	1450	13x26	1820	16x26	2280					
3300	13x26	1800	16x26	2100							

WV (V) Cap (F)		160 (200)		200 (250)		250 (300)		400 (450)		450 (600)	
		Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.
6.8								10x20	180	10x20	180
8.2								10x20	200	13x21	220
10	10x15	220	10x17	230	10x20	240	13x21	240	13x25	270	
15	10x17	270	10x20	290	10x20	290	13x21	290	16x21	330	
22	10x20	320	10x20	320	13x21	420	16x26	370	16x26	370	
33	13x21	400	13x21	400	13x25	480	18x21	420	18x26	500	
47	13x21	520	13x21	520	16x21	650	18x26	600	18x31.5	670	
68	13x25	700	13x25	700	16x26	800	18x31.5	780	18x35.5	840	
82	13x25	780	16x26	850	18x21	920	18x35.5	950	18x35.5	950	
100	16x26	900	18x21	920	18x25	1020	18x35.5	1000			
120	18x21	950	18x21	950	18x25	1100	18x31.5	1200			
150	18x26	1070	18x26	1070	18x31.5	1220					
220	18x26	1130	18x31.5	1230							

Ripple Current (mA rms) at 105°C 100Hz